

$^{87}\text{Sr}(\alpha, n\gamma)$  1971GI06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, E. A. Mccutchan		NDS 165,1 (2020)	1-Mar-2020

1971GI06: E=10.3-13.5 MeV. Measured  $E_\gamma$ . Ge(Li) detector.

 $^{90}\text{Zr}$  Levels

E(level)	$J^\pi$ †
0	0 <sup>+</sup>
2186.3	2 <sup>+</sup>
2319.0	5 <sup>-</sup>
2738.9‡	(4) <sup>-</sup>
2747.5‡	3 <sup>-</sup>
3076.9	4 <sup>+</sup>
3305.0?‡	2 <sup>+</sup>
3448.2	6 <sup>+</sup>
3589.4	8 <sup>+</sup>

† From the Adopted Levels.

‡ As given by 1971GI06.

 $\gamma(^{90}\text{Zr})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
132.8	2319.0	5 <sup>-</sup>	2186.3	2 <sup>+</sup>
141	3589.4	8 <sup>+</sup>	3448.2	6 <sup>+</sup>
420	2738.9	(4) <sup>-</sup>	2319.0	5 <sup>-</sup>
561	2747.5	3 <sup>-</sup>	2186.3	2 <sup>+</sup>
891	3076.9	4 <sup>+</sup>	2186.3	2 <sup>+</sup>
1118†	3305.0?	2 <sup>+</sup>	2186.3	2 <sup>+</sup>
1128	3448.2	6 <sup>+</sup>	2319.0	5 <sup>-</sup>
2186.3	2186.3	2 <sup>+</sup>	0	0 <sup>+</sup>
2319.0	2319.0	5 <sup>-</sup>	0	0 <sup>+</sup>

† Placement of transition in the level scheme is uncertain.

${}^{87}\text{Sr}(\alpha, n\gamma)$  1971G106

Legend

Level Scheme-----►  $\gamma$  Decay (Uncertain)